Fall 2007

CEG 220: Introduction to C Programming for Engineers I

Jay DeJongh
Wright State University - Main Campus, jay.dejongh@wright.edu

Syllabus
CEG 220 Introduction to C Programming for Engineers
Section 01 – Fall 2007

T Th 12:20 – 2:00 p.m. in Russ Engineering Center Room 152A

Description: This course provides a general introduction to computers as a problem-solving tool using the C programming language. Emphasis is on algorithms and techniques useful to engineers. Topics include data representation, debugging, and program verification. 4 credit hours. Prerequisite: MTH 229 (Calculus I) or EGR 101 (Engineering Mathematics).

Instructor: Dr Jay DeJongh, 341 RC, 775-2555. E-mail: jay.dejongh@wright.edu Office hours: 2:00 - 3:00 Tue, Thurs; 12:30-1:30 Wed. Other hours by appointment.

Textbooks:

C Programming: A Modern Approach, K. N. King, W. W. Norton and Company, 1996.

Software: Dev-C++ Version 4.9.9.2 for Windows. Free download (9.1 MB) from http://www.bloodshed.net. An alternate C compiler is the UNIX GNU C compiler. Other C compilers must be approved by the instructor.

Grading: Two Exams @ 25% each: 50%. One Final: 25%. Six Projects: 25%. Closed book, closed notes Exams and Final. Quizzes may also be given in class, in office oral exam or take-home. Quiz points will be included as part of the 50% exams grade.

Grading scale: **A:** 100-90, **B:** less than 90-80, **C:** less than 80-70, **D:** less than 70-60, **F:** less than 60-0.

Policy:

Quizzes may be announced or unannounced and will usually be given at the beginning or near the end of lecture. Projects are due at the time and date specified on project handout. WebCT will be used for grade posting and for program submittals. No late exams or quizzes unless verifiable emergency. Grade on late Projects will be reduced by 10%. Submittals more than one day late will not be graded - "zero" grade assigned. Exceptions to the late policy may be made unusual circumstances. All work must be your own; sharing of program code will result in a grade of "zero" for all involved. Sharing ideas and general computer skills with others outside of class is encouraged. Students are expected to read and follow the Academic Integrity Policy:

http://www.wright.edu/students/judicial/integrity.html

Course Home Page and WebCT:

The Course Home Page at the link below will contain lecture materials and assignments and other course handouts:

http://cs.wright.edu/people/faculty/jdejongh/CEG220

Grades will be posted and programs will be submitted through WebCT. Students should become familiar with WebCT (campus login username and password required) and should read the instructions on the entry page at:

http://wisdom.wright.edu

Schedule:

Topics and project dates may vary. Exam dates are firm. Sept. 25 - last drop date without grade; Oct 23 - last drop date "W" grade. More specific and detailed reading assignments will be discussed each week in lecture.

Week	Chapter/Sections Study Reference for Lectures	Topics	Project/Exam	Date
1	1, 2, 3	C Fundamentals and Formatted Input/Output		
2	4, 23.3, 7.1-7.5, 23.4	Expressions, Math Functions, Basic Types, Character Functions	Project 1	**Thu Sept 13**
3	5, 6, 18	Selection Statement, Loops, and Declarations		
4	22	File Operations	Project 2 Exam 1	**Tue Sept 25** **Thu Sept 27**
5	9	Functions		
6	9, 10, 8	Functions, Program Organization, and Arrays	Project 3	**Tue Oct 9**
7	8, 13, 23.5	Arrays and Strings	Project 4 Exam 2	**Tue Oct 16** **Thu Oct 18**
8	9.6, 11, 12	Recursion and Pointers		
9	16	Structures	Project 5	**Tue Oct 30**
10	16	Structures and Course Review	Project 6	**Tue Nov 6**
Finals		Final Exam (152A RC)	Final	**Tue Nov 13, 1:00pm - 3:00pm**